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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/694,075

DATE: 09/17/2004

TIME: 11:40:09

Input Set : N:\Crf3\RULE60\10694075.raw

Output Set: N:\CRF4\09172004\J694075.raw

1 <110> APPLICANT: Kandimalla, Ekambar R.
 2 Zhao, Qiuyan
 3 Yu, Dong
 4 Agrawal, Sudhir
 5 <120> TITLE OF INVENTION: Modulation of Immunostimulatory Activity of
 6 Immunostimulatory
 7 Modified oligodeoxynucleotide phosphorothioate Analogs by
 8 Positional Chemical Changes
 9 <130> FILE REFERENCE: HYZ-479CP (47508.577)
 10 <140> CURRENT APPLICATION NUMBER: US/10/694,075
 C--> 11 <141> CURRENT FILING DATE: 2003-10-27
 12 <150> PRIOR APPLICATION NUMBER: CURRENT APPLICATION NUMBER: US/09/965,116
 W--> 13 <151> PRIOR FILING DATE: CURRENT FILING DATE: 2002-03-08
 14 <150> PRIOR APPLICATION NUMBER: US 09/712,898
 15 <151> PRIOR FILING DATE: 2000-11-15
 16 <150> PRIOR APPLICATION NUMBER: US 60/235,452
 17 <151> PRIOR FILING DATE: 2000-09-26
 18 <150> PRIOR APPLICATION NUMBER: US 60/235,453
 19 <151> PRIOR FILING DATE: 2000-09-26
 20 <160> NUMBER OF SEQ ID NOS: 112
 21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 18
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Artificial Sequence
 27 <220> FEATURE:
 28 <223> OTHER INFORMATION: synthesis of CpG-PS-oligos containing cytosine analogs
 29 <400> SEQUENCE: 1
 30 ctatctgacg ttctctgt 18
 32 <210> SEQ ID NO: 2
 33 <211> LENGTH: 18
 34 <212> TYPE: DNA
 35 <213> ORGANISM: Artificial Sequence
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: synthesis of CpG-PS-oligos containing cytosine analogs
 38 <220> FEATURE:
 39 <221> NAME/KEY: modified_base
 40 <222> LOCATION: 9
 41 <223> OTHER INFORMATION: c = 5-hydroxydeoxycytidine
 42 <400> SEQUENCE: 2
 43 ctatctgacg ttctctgt 18
 45 <210> SEQ ID NO: 3
 46 <211> LENGTH: 18

ENTERED

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47 <212> TYPE: DNA
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49 <220> FEATURE:
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51 <220> FEATURE:
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53 <222> LOCATION: 10
54 <223> OTHER INFORMATION: c = 5-hydroxydeoxycytidine
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56      ctatctgacc ttctctgt                                18
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62 <220> FEATURE:
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64 <220> FEATURE:
65 <221> NAME/KEY: modified_base
66 <222> LOCATION: 9
67 <223> OTHER INFORMATION: c = N4-ethyldeoxycytidine
68 <400> SEQUENCE: 4
69      ctatctgacg ttctctgt                                18
71 <210> SEQ ID NO: 5
72 <211> LENGTH: 18
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial Sequence
75 <220> FEATURE:
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77 <220> FEATURE:
78 <221> NAME/KEY: modified_base
79 <222> LOCATION: 10
80 <223> OTHER INFORMATION: c = N4-ethyldeoxycytidine
81 <400> SEQUENCE: 5
82      ctatctgacc ttctctgt                                18
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85 <211> LENGTH: 16
86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: synthesis of end-blocked CpG-PS modified
90      oligodeoxynucleotide
91      phosphorothioate
92 <400> SEQUENCE: 6
93      aaggtcgagc gttctc                                16
95 <210> SEQ ID NO: 7
96 <211> LENGTH: 18
97 <212> TYPE: DNA
98 <213> ORGANISM: Artificial Sequence
99 <220> FEATURE:

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100 <223> OTHER INFORMATION: synthesis of end-blocked CpG-PS modified
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102     phosphorothioate
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104     atggcgacg ctgggaga                                     18
106 <210> SEQ ID NO: 8
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108 <212> TYPE: DNA
109 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: oligodeoxynucleotide phosphorothioate
112 <400> SEQUENCE: 8
113     cctactagcg ttctcatc                                     18
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116 <211> LENGTH: 18
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118 <213> ORGANISM: Artificial Sequence
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121 <220> FEATURE:
122 <221> NAME/KEY: modified_base
123 <222> LOCATION: 10
124 <223> OTHER INFORMATION: g = 1',2'-Dideoxyribose
125 <400> SEQUENCE: 9
126     cctactagcg ttctcatc                                     18
128 <210> SEQ ID NO: 10
129 <211> LENGTH: 18
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
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134 <220> FEATURE:
135 <221> NAME/KEY: modified_base
136 <222> LOCATION: 8
137 <223> OTHER INFORMATION: g = 1',2'-Dideoxyribose
138 <400> SEQUENCE: 10
139     cctactagcg ttctcatc                                     18
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148 <221> NAME/KEY: modified_base
149 <222> LOCATION: 7
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151 <400> SEQUENCE: 11
152     cctactagcg ttctcatc                                     18

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Input Set : N:\Crf3\RULE60\10694075.raw

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161 <221> NAME/KEY: modified_base
162 <222> LOCATION: 6
163 <223> OTHER INFORMATION: t = 1',2'-Dideoxyribose
164 <400> SEQUENCE: 12
165      cctactagcg ttctcatc                                     18
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168 <211> LENGTH: 18
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170 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
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173 <220> FEATURE:
174 <221> NAME/KEY: modified_base
175 <222> LOCATION: 5
176 <223> OTHER INFORMATION: c = 1',2'-Dideoxyribose
177 <400> SEQUENCE: 13
178      cctactagcg ttctcatc                                     18
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186 <220> FEATURE:
187 <221> NAME/KEY: modified_base
188 <222> LOCATION: 4
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190 <400> SEQUENCE: 14
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193 <210> SEQ ID NO: 15
194 <211> LENGTH: 18
195 <212> TYPE: DNA
196 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
199 <220> FEATURE:
200 <221> NAME/KEY: modified_base
201 <222> LOCATION: 4
202 <223> OTHER INFORMATION: a = 1',2'-Dideoxyribose
203 <400> SEQUENCE: 15
204      cctactagcc ttctcatc                                     18
206 <210> SEQ ID NO: 16

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207 <211> LENGTH: 18
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
212 <220> FEATURE:
213 <221> NAME/KEY: modified_base
214 <222> LOCATION: 11
215 <223> OTHER INFORMATION: t = 1',2'-Dideoxyribose
216 <400> SEQUENCE: 16
217      cctactagcg ttctcatc
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220 <211> LENGTH: 18
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222 <213> ORGANISM: Artificial Sequence
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225 <220> FEATURE:
226 <221> NAME/KEY: modified_base
227 <222> LOCATION: 12
228 <223> OTHER INFORMATION: t = 1',2'-Dideoxyribose
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230      cctactagcg ttctcatc
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233 <211> LENGTH: 18
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
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239 <221> NAME/KEY: modified_base
240 <222> LOCATION: 13
241 <223> OTHER INFORMATION: c = 1',2'-Dideoxyribose
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245 <210> SEQ ID NO: 19
246 <211> LENGTH: 18
247 <212> TYPE: DNA
248 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
251 <220> FEATURE:
252 <221> NAME/KEY: modified_base
253 <222> LOCATION: 14
254 <223> OTHER INFORMATION: t = 1',2'-Dideoxyribose
255 <400> SEQUENCE: 19
256      cctactagcg ttctcatc
258 <210> SEQ ID NO: 20
259 <211> LENGTH: 18

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VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\10694075.raw

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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:13 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD